



CASE STUDY: Standard Chartered Bank, Mumbai



KEY PARAMETERS

Occupancy Type	Office Space
Built up area	179819 Sq ft
Completed	May 2012
Location	Mumbai
Green consultant	En3 Sustainability Solutions
Rating System	LEED CI v2
Rating Achieved	GOLD

LEED SCORES



The SCB Office space in Mumbai has been awarded Gold certification under USGBC's LEED Commercial Interior rating system.



SITE SUSTAINABILITY FEATURES

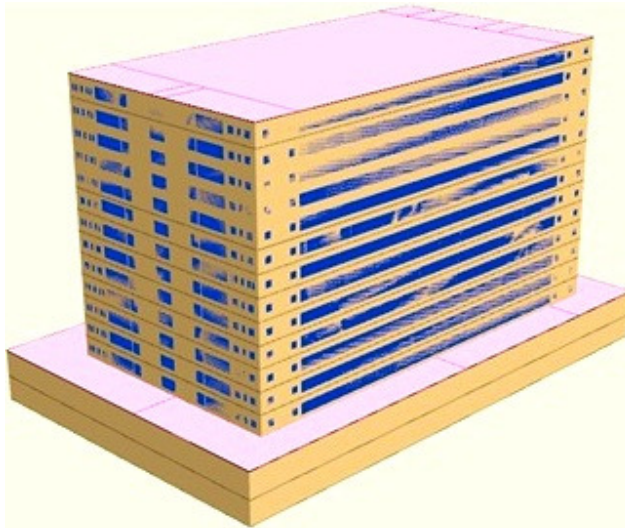
- The project is in ideal location with close proximity to public transportation thereby minimizing transportation pollution and strain on local infrastructure, protects green-field site and preserve habitat and natural resources.
- Provision of Bicycle and Shower facility for their staff reduces pollution and land development impacts from automobile use.
- The building site has 100% underground or covered parking
- The project provides alternative-fuel fueling stations for 3.92% of the total parking capacity

WATER EFFICIENCY

- Low flow dual-flush toilets, sensor based urinals and other low flow fixtures have installed reduced potable water consumption by **43.26%**.
- 100% of wastewater is being treated to tertiary standards on site
- The installed irrigation systems reduce potable water consumption by 100% from a calculated baseline case

ENERGISING THE BUILDING

- Provision of high performance glazing, energy efficient HVAC design and lighting has contributed to energy savings of about **34.55%** over conventional building and HVAC systems.
- Selection of CFC free and HCFC free refrigerants avoids global warming and ozone depletion.



- Light fixtures and efficient lighting design contribute to **35.07%** of reduction in connected lighting power density over the base case of ASHRAE standards.
- Daylight responsive controls have been installed in 100% of all regularly occupied spaces within 15 feet of windows or under skylights.
- ENERGY STAR-rated equipment and appliances equal to **71.17%**, by rated power, have been installed on the project.



RESOURCE MANAGEMENT

- The project has diverted 90.85% of the on-site generated construction waste from landfill.
- 50.06% of the total building materials value includes building materials and products that have been manufactured within 500 miles of the project site.

INDOOR ENVIRONMENTAL QUALITY



- Better air quality and additional fresh air by 30% have been provided for enhanced indoor environment
- Indoor air quality management has been done both during construction as well as post occupancy in an effort to provide a more superior environment
- A CO2 sensor is installed within each densely occupied space.
- The project conducted a flush-out prior to occupancy by supplying a total air volume of 14,000 cubic feet of outdoor air per square foot of floor area while maintaining an internal temperature of at least 60 degrees F and relative humidity no higher than 60%
- Low emitting adhesives, paints, carpets and composite wood products have been used to enhance the indoor environment and provide superior workplace for all employees.
- The systems furniture and office seating are Greenguard certified

NOVELTIES

A comprehensive green cleaning / housekeeping program is in place with clear performance goals including: a statement of purpose; custodial training; the contractual or procedural requirements for operations staff; a clear set of acceptable performance standards by which to measure products, progress, and achievement of goals; and documentation of the program's housekeeping and environmental cleaning solution specifications.

The building has been designed by En3 to showcase various green and sustainability measures and practices and the effort is to create greater awareness on green concepts and sustainability to all its visitors and occupants & spearhead the green movement in the state and the country.

En3 would be glad to answer any queries or questions you have on any green or sustainability related topics. Feel free to contact us at info@en3online.com and for more information visit us at www.en3online.com.